

attention, a great delay is avoided by adopting this method of publication, which must otherwise have been incurred before the materials could have been made known.

An Account of the Voyage, drawn up by Captain FitzRoy, (and to which I have added a volume) being on the point of publication, I shall not in this Work enter on any minute details respecting the countries which were visited, but shall merely give a sketch of the geology in the introduction to the part containing Fossil Mammalia, and a brief geographical notice in that attached to the account of existing animals. At the conclusion of this Work, I shall endeavour to place together the leading results in the natural history of the different countries, from which the collections were procured. I may here state that Mr. Owen has undertaken the description of the Fossil Mammalia; Mr. Waterhouse, the Recent Mammalia; Mr. Gould, the Birds; Mr. Bell, the Reptiles; and the Rev. L. Jenyns, the Fish. Whatever assistance I may obtain in the invertebrate classes, will be noticed in their respective places. The specimens have been presented to the various public museums, in which it was thought they would be of most general service: mention will be made in each part where the objects described have been deposited.

LIST OF PLATES.

- PLATE I. Cranium of *Toxodon Platensis*, nat. size, basal view, with the sixth molar, right side upper jaw, and grinding surface of the seventh molar left side.
- II. Cranium of *Toxodon Platensis*, side view.
- III. Ditto, upper view.
- IV. Ditto, back view, with two views of the sixth molar, right side, upper jaw.
- V. Fragment of lower jaw, and teeth of *Toxodon Platensis*.
- VI. Cervical vertebrae of the *Macrauchenia Patachonica*.
- VII. Ditto, ditto, and of *Auchenia Llama*.
- VIII. Lumbar vertebrae of the *Macrauchenia Patachonica*.
- a. Medium convex articular surface joining the body of the sacrum.
- b. Lateral concavities joining the transverse processes of the sacrum.
- c. Ossified ligament of an ankylosed lumbar vertebra.
- IX. Fig. 1 and 2. Fragments of the Scapula. Fig. 3. Distal end of the femur of *Macrauchenia Patachonica*.
- X. Proximal ends of the ankylosed radius and ulna of *Macrauchenia Patachonica*.
- XI. Bones of the right fore-foot, *Macrauchenia Patachonica*.
- XII. Femur, *Macrauchenia Patachonica*.
- XIII. Ankylosed tibia and fibula, *Macrauchenia Patachonica*.
- XIV. Right astragalus, *Macrauchenia Patachonica*.
- XV. Fig. 1. External metatarsal bone of the right hind-foot. Fig. 2. Proximal end of internal metacarpal bone, right fore-foot.
- XV. (continued.) Fig. 3 and 4. Proximal end of middle metacarpal bone. Fig. 5. Proximal end of external metacarpal bone, right fore-foot, *Macrauchenia Patachonica*.
- XVI. Fragment of cranium of the *Glossotherium*. Fig. 1. Side view. Fig. 2. Base view. Fig. 3. Inside view, all half natural size. Fig. 4. Os tympanicum, natural size.
- XVII. Fig. 1. *Megalonyx Jeffersonii*. Fig. 2. *Megalonyx laqueatus*. Fig. 3 and 4. *Myiodon Harlani*. Fig. 5. *Myiodon Darwinii*.
- XVIII. Lower jaw of the *Myiodon Darwinii*.
- XIX. Fig. 1. Side view of the lower jaw. Fig. 2 and 3. Last molar tooth. Fig. 4. Front view of the symphysis of the lower jaw, *Myiodon Darwinii*.
- XX. Portion of the skeleton of the *Scelidotherium leptcephalum*.
- XXI. Fig. 1. Side view of the cranium. Fig. 2. Back view of the cranium. Fig. 3, 4, and 5, anterior molar, upper jaw *Scelidotherium*.
- XXII. Upper view of the cranium of the *Scelidotherium*.
- XXIII. Fig. 1. Inside view of cranium. Fig. 2. Articular surface for the lower jaw. Fig. 3. Section of upper jaw and molar teeth. Fig. 4. Section of lower jaw and molar teeth, *Scelidotherium*.
- XXIV. Cervical and anterior dorsal vertebrae of, Fig. 1. *Scelidotherium*.